

**Before the  
FEDERAL COMMUNICATIONS COMMISSION  
Washington, D.C. 20554**

In the Matter of	)	
	)	
Revision of Parts 2 and 15 of the Commission's	)	ET Docket No. 03-122
Rules to Permit Unlicensed National Information	)	RM - 10371
Infrastructure (U-NII) devices in the 5 GHz band	)	
	)	
	)	

**COMMENTS OF  
MICROTEQ CORPORATION**

**INTRODUCTION**

MICROTEQ Corporation (MICROTEQ) submits these Comments in support of the Commission's NOTICE OF PROPOSED RULEMAKING, adopted May 15, 2003.

**DISCUSSION**

As observed by the Commission, service providers are currently offering or have announced plans to deploy commercial unlicensed broadband networks. The Commission also noted that these networks offer significant benefits to American consumers and businesses by offering the possibility of increased competition with other providers of broadband service, including cable and digital subscriber line (DSL) broadband services. MICROTEQ believes this to be especially true in rural areas that are either un-served or under-served by other broadband providers.

Because of the longer transmission distances to serve remote rural communities, it will often be necessary to use fixed point-to-point links requiring e.i.r.p.s. greater than allowed under the present U-NII rules. We therefore request that the Commission applies the requirements of Part 15.247(4)(ii) of the rules, to fixed point-to-point applications in the new spectrum.

Because antenna gain and beam width are directly related (as antenna gain increases, beam width decreases), we believe that for fixed link applications, antenna rejection, combined with dynamic frequency selection (DFS) and transmit power control (TCP), can provide the necessary interference protection.

## **CONCLUSION**

MICROTEQ Corporation, supports the proposed amendment to Part 15 of the rules to make available an additional 225 megahertz of spectrum in the 5.47-5.725 GHz band.

MICROTEQ further requests the Commission to apply the requirements of Part 15.247(4)(ii) of the rules, to fixed point-to-point applications in the new spectrum.

Respectfully submitted,

MICROTEQ CORPORATION

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Michael Mulcay  
President and CEO